

Listing of Claims:

The following listing of claims replaces all prior versions, and listings, of claims in the application:

Claim 1 (currently amended): A platinum alloy comprising:

55 to 63 wt.% of platinum,

2 to 10 wt.% of cobalt, and

27 to 43 wt.% of copper,

wherein a Vickers hardness of said alloy, measured at soft state, is between about 130 to 210 HV10.

Claim 2 (currently amended): A platinum alloy ~~comprising~~ consisting essentially of:

70 to 79.5 wt.% of platinum,

2 to 10 wt.% of cobalt, and

10.5 to 28 wt.% of copper,

wherein a Vickers hardness of said alloy, measured at soft state, is between about 130 to 210 HV10.

Claim 3 (previously presented): The platinum alloy according to claim 1, wherein said alloy comprises 57.5 to 59.9 wt.% of platinum.

Claim 4 (previously presented): The platinum alloy according to claim 1, wherein said alloy comprises 58.5 to 59.0 wt.% of platinum.

Claim 5 (previously presented): The platinum alloy according to claim 2, wherein said alloy comprises 72 to 78 wt.% of platinum.

Claim 6 (previously presented): The platinum alloy according to claim 2, wherein said alloy comprises 74 to 76 wt.% of platinum.

Claim 7 (previously presented): The platinum alloy according to claim 1, wherein said alloy comprises 2.0 to 8.0 wt.% of cobalt.

Claim 8 (previously presented): The platinum alloy according to claim 1, wherein said alloy comprises 3.5 to 5.5 wt.% of cobalt.

Claim 9 (previously presented): The platinum alloy according to claim 1, wherein said alloy further comprises 0.001 to 2 wt.% of at least one first metal selected from the group consisting of palladium, iridium and ruthenium.

Claim 10 (previously presented): The platinum alloy according to claim 1, wherein said alloy further comprises a 0.001 to 2 wt.% of at least one second metal selected from the group consisting of indium and gallium.

Claim 11 (previously presented): The platinum alloy according to claim 1, consisting essentially of:

57.5 to 59.9 wt.% of platinum,

3.5 to 4.5 wt.% of cobalt, and

35.6 to 39 wt.% of copper,

wherein 0.001 to 2 wt.% of copper may be substituted by at least one first metal selected from the group consisting of palladium, iridium and ruthenium and 0.001 to 2 wt.% of copper may be substituted by at least one second metal selected from the group consisting of indium and gallium.

Claim 12 (previously presented): The platinum alloy according to claim 1, wherein a tensile strength of said alloy is between about 450 to 800 N/mm².

Claim 13 (canceled)

Claim 14 (previously presented): The platinum alloy according to claim 1, wherein an elongation at break of said alloy is at least 20 %.

Claim 15 (previously presented): The platinum alloy according to claim 1, wherein a color tone of said alloy corresponds essentially to a platinum white color tone of a PtCu950 alloy.

Claim 16 (currently amended): A method of preparing a platinum alloy, comprising the steps of:

providing alloy components, said alloy components comprising: 55 to 63 wt.% of platinum, 2 to 10 wt.% of cobalt, and 27 to 43 wt.% of copper;

blending the alloy components of the alloy together; and

melting the alloy components to form said alloy,

wherein a Vickers hardness of said alloy, measured at soft state, is between about 130 to 210 HV10.

Claim 17 (currently amended): A platinum-colored material for ornamental purposes comprising a platinum alloy, said alloy comprising:

55 to 63 wt.% of platinum,

2 to 10 wt.% of cobalt, and

27 to 43 wt.% of copper,

wherein a Vickers hardness of said alloy, measured at soft state, is between about 130 to 210 HV10.

Claim 18 (currently amended): An ornamental article comprising a platinum alloy, said alloy comprising:

55 to 63 wt.% of platinum,
2 to 10 wt.% of cobalt, and
27 to 43 wt.% of copper,

wherein a Vickers hardness of said alloy, measured at soft state, is between about 130 to 210 HV10.

Claim 19 (previously presented): The ornamental article according to claim 18, wherein said ornamental article is selected from the group consisting of a ring, a necklace, an earring, a watch band, and a watch body.

Claim 20 (currently amended): A method of fabricating the ornamental article, comprising the steps of:

providing alloy components, said alloy components comprising 55 to 63 wt.% of platinum, 2 to 10 wt.% of cobalt, and 27 to 43 wt.% of copper;
blending the alloy components of the alloy together; and,
melting the alloy components to form said alloy.

wherein a Vickers hardness of said alloy, measured at soft state, is between about 130 to 210 HV10.

Claim 21 (previously presented): The method according to claim 20, comprising the further step of casting the melted alloy into a shape of the ornamental article.

Claims 22-26 (canceled)

Claim 27 (previously presented): The platinum alloy according to claim 2, wherein said alloy comprises 2.0 to 8.0 wt.% of cobalt.

Claim 28 (previously presented): The platinum alloy according to claim 2, wherein said alloy comprises 3.5 to 5.5 wt.% of cobalt.

Claim 29 (previously presented): The platinum alloy according to claim 2, wherein said alloy further comprises 0.001 to 2 wt.% of at least one first metal selected from the group consisting of palladium, iridium and ruthenium.

Claim 30 (previously presented): The platinum alloy according to claim 2, wherein said alloy further comprises a 0.001 to 2 wt.% of at least one second metal selected from the group consisting of indium and gallium.

Claim 31 (canceled)

Claim 32 (previously presented): The platinum alloy according to claim 2, wherein an elongation at break of said alloy is at least 20 %.

Claim 33 (previously presented): The platinum alloy according to claim 2, wherein a color tone of said alloy corresponds essentially to a platinum white color tone of a PtCu950 alloy.

Claim 34 (currently amended): A method of preparing a platinum alloy, comprising the steps of:

providing alloy components, said alloy components ~~comprising~~ consisting essentially of: 70 to 79.5 wt.% of platinum, 2 to 10 wt.% of cobalt, and 10.5 to 28 wt.% of copper;

blending the alloy components ~~of the alloy~~ together; and,

melting the alloy components to form said alloy.

wherein a Vickers hardness of said alloy, measured at soft state, is between about 130 to 210 HV10.

Claim 35 (currently amended): A platinum-colored material for ornamental purposes comprising a platinum alloy, said alloy ~~comprising~~ consisting essentially of:
70 to 79.5 wt.% of platinum,
2 to 10 wt.% of cobalt, and
10.5 to 28 wt.% of copper,
wherein a Vickers hardness of said alloy, measured at soft state, is between about 130 to 210 HV10.

Claim 36 (currently amended): An ornamental article comprising a platinum alloy, said alloy ~~comprising~~ consisting essentially of:
70 to 79.5 wt.% of platinum,
2 to 10 wt.% of cobalt, and
10.5 to 28 wt.% of copper,
wherein a Vickers hardness of said alloy, measured at soft state, is between about 130 to 210 HV10.

Claim 37 (currently amended): A method of fabricating ~~the~~ an ornamental article, comprising the steps of:
providing alloy components, said alloy components ~~comprising~~ consisting essentially of 70 to 79.5 wt.% of platinum, 2 to 10 wt.% of cobalt, and 10.5 to 28 wt.% of copper;
blending the alloy components of the alloy together; and,
melting the alloy components to form said alloy,
wherein a Vickers hardness of said alloy, measured at soft state, is between about 130 to 210 HV10.

Claims 38-39 (canceled)

Claim 40 (new): A platinum alloy comprising:
70 to 79.5 wt.% of platinum,
2 to 10 wt.% of cobalt, and
10.5 to 28 wt.% of copper,
wherein a Vickers hardness of said alloy, measured at soft state, is between about 130 to 210 HV10, and wherein said alloy is essentially free of chromium.

Claim 41 (new): A method of preparing a platinum alloy, comprising the steps of:
providing alloy components, said alloy components comprising: 70 to 79.5 wt.%
of platinum, 2 to 10 wt.% of cobalt, and 10.5 to 28 wt.% of copper;
blending the alloy components together; and,
melting the alloy components to form said alloy,
wherein a Vickers hardness of said alloy, measured at soft state, is between about 130 to 210 HV10, and wherein said alloy is essentially free of chromium.

Claim 42 (new): A platinum-colored material for ornamental purposes comprising
a platinum alloy, said alloy comprising:
70 to 79.5 wt.% of platinum,
2 to 10 wt.% of cobalt, and
10.5 to 28 wt.% of copper,
wherein a Vickers hardness of said alloy, measured at soft state, is between about 130 to 210 HV10, and wherein said alloy is essentially free of chromium.

Claim 43 (new): An ornamental article comprising a platinum alloy, said alloy
comprising:
70 to 79.5 wt.% of platinum,
2 to 10 wt.% of cobalt, and
10.5 to 28 wt.% of copper,
wherein a Vickers hardness of said alloy, measured at soft state, is between about 130 to 210 HV10, and wherein said alloy is essentially free of chromium.

Claim 44 (new): A method of fabricating an ornamental article, comprising the steps of:

providing alloy components, said alloy components comprising 70 to 79.5 wt.% of platinum, 2 to 10 wt.% of cobalt, and 10.5 to 28 wt.% of copper;
blending the alloy components together,
melting the alloy components to form said alloy, and
casting the melted alloy into a shape of the ornamental article,
wherein a Vickers hardness of said alloy, measured at soft state, is between about 130 to 210 HV10, and wherein said alloy is essentially free of chromium.

Claim 45 (new): A platinum alloy comprising:
74 to 76 wt.% of platinum,
3.5 to 8 wt.% of cobalt, and
16 to 22.5 wt.% of copper,
wherein a Vickers hardness of said alloy, measured at soft state, is between about 130 to 210 HV10.

Claim 46 (new): A method of preparing a platinum alloy, comprising the steps of:
providing alloy components, said alloy components comprising: 74 to 76 wt.% of platinum, 3.5 to 8 wt.% of cobalt, and 16 to 22.5 wt.% of copper;
blending the alloy components together; and,
melting the alloy components to form said alloy,
wherein a Vickers hardness of said alloy, measured at soft state, is between about 130 to 210 HV10.

Claim 47 (new): A platinum-colored material for ornamental purposes comprising a platinum alloy, said alloy comprising:

74 to 76 wt.% of platinum,
3.5 to 8 wt.% of cobalt, and
16 to 22.5 wt.% of copper,

wherein a Vickers hardness of said alloy, measured at soft state, is between about 130 to 210 HV10.

Claim 48 (new): An ornamental article comprising a platinum alloy, said alloy comprising:

74 to 76 wt.% of platinum,
3.5 to 8 wt.% of cobalt, and
16 to 22.5 wt.% of copper,

wherein a Vickers hardness of said alloy, measured at soft state, is between about 130 to 210 HV10.

Claim 49 (new): A method of fabricating an ornamental article, comprising the steps of:

providing alloy components, said alloy components comprising 74 to 76 wt.% of platinum, 3.5 to 8 wt.% of cobalt, and 16 to 22.5 wt.% of copper;
blending the alloy components together,
melting the alloy components to form said alloy, and
casting the melted alloy into a shape of the ornamental article,

wherein a Vickers hardness of said alloy, measured at soft state, is between about 130 to 210 HV10.